

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



BEST AVAILABLE COPY

#12/B 508
11/3/03

Atty. Docket No.: 25436/2152 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Hogrefe, et al.
Serial No.: 10/035,091
Filed: December 21, 2001
Entitled: HIGH FIDELITY DNA
POLYMERASE COMPOSITIONS
AND USES THEREFOR

Examiner: Not Yet Assigned

Group Art Unit: 1645

Conf. No.: 1719

RECEIVEI

DEC 30 2002

TECH CENTER 1600/

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Box: Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231.

Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

Box: Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

This paper is supplemental to our filing of December 21, 2002. Applicants believe that no other fee is due with this filing; however, please charge any necessary fees required in connection with the paper transmitted herewith to Deposit Account No. 16-0085. Reference No. : 25436/2152.

AMENDMENT

Please amend the above-referenced patent application as follows:

In the Claims

Please cancel claims 4-5, 9, 15-17, 19, 27-29 and replace claims 1-3, 6-14, 18, 20-26, 30-34 with the following claims. Please add new claim 35.

B¹
1. (Amended) An enzyme mixture comprising a first enzyme and a second enzyme, wherein said first enzyme comprises a DNA polymerization activity, and said second enzyme is a mutant Pfu DNA polymerase comprising one or more mutations at amino acid positions selected from the group consisting of: D405, Y410, T542, D543, K593, Y595, Y385, G387, and G388.



BEST AVAILABLE COPY

RECEIVED

DEC 30 2002

1645

TECH CENTER 1600/2900

Atty. Docket No.: 25436/2152

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Hogrefe, et al.	Examiner:	Not Yet Assigned
Serial No.:	10/035,091		
Filed:	December 21, 2001	Group Art Unit:	1645
Entitled:	"High Fidelity DNA Polymerase Compositions and Uses Therefor"	Conf. No.:	1719

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Box Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231.

Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

**Box: Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231**

TRANSMITTAL LETTER

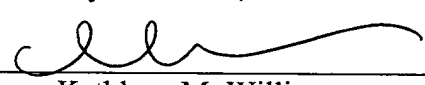
Enclosed for filing the above-identified patent application, please find the following documents:

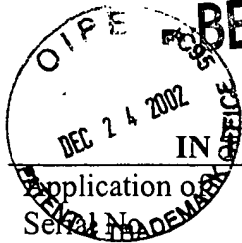
1. Preliminary Amendment;
2. Amendment Transmittal Letter; and
3. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference 25436/2152. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: December 18, 2002


Name: Kathleen M. Williams
Registration No.: 34,380
Customer No.: 27495
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100



BEST AVAILABLE COPY

Atty. Docket No.: 25430/2152

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Hogrefe, et al.
Serial No.: 10/035,091
Filed: December 21, 2001
Entitled: "High Fidelity DNA Polymerase
Compositions and Uses Therefor"

Examiner: Not Yet Assigned
Group Art Unit: 1645
Conf. No.: 1719

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Box: Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231.

Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

**Box: Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231**

AMENDMENT TRANSMITTAL LETTER

Sir:

- Transmitted herewith is a supplemental preliminary amendment to be filed in the above-referenced patent application.

STATUS

- Applicant is
☒ a small entity.
☐ other than small entity.

EXTENSION OF TIME

- The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply.

<input type="checkbox"/>	Applicant petitions for an extension of time under 37 CFR 1.136		
	Extension (months)	Fee for other than small entity	Fee for small entity
<input type="checkbox"/>	ONE month	\$110.00	\$55.00
<input type="checkbox"/>	TWO months	\$400.00	\$200.00
<input type="checkbox"/>	THREE months	\$920.00	\$460.00
<input type="checkbox"/>	FOUR months	\$1,440.00	\$720.00
<input type="checkbox"/>	FIVE months	\$1,960.00	\$980.00
		Fee	\$

BEST AVAILABLE COPY

If an additional extension of time is required, please consider this a petition therefor.

- (a) ☐ An extension for _____ has already been secured and the fee paid therefor of \$ _____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ _____

OR

- (b) ☒ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

FEE FOR CLAIMS

4. The fee for claims (37 CFR 1.16(b)-(d)) has been calculated as shown below:

CLAIMS AS AMENDED						
	(1)	(2)	(3)			
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE	FEE
TOTAL CLAIMS	33	minus	52	0	x \$18	\$0.00
INDEPENDENT CLAIMS	8	minus	9	0	x \$84	\$0.00
MULTIPLE DEPENDENT CLAIM ADDED	N				\$280	\$0.00
				TOTAL		\$0.00
If applicant has small entity status under 37 CFR 1.9 and 1.27, then divide total fee by 2 and enter amount here.				SMALL ENTITY TOTAL		\$0.00

- (c) ☒ No additional fee for claims is required.

OR

- (d) ☐ Total additional fee for claims required \$0.00

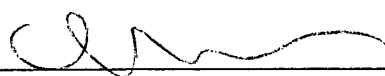
FEE PAYMENT

BEST AVAILABLE COPY

5. ☐ Attached is a check in the sum of \$0.00
- ☒ Charge Deposit Account No. 16-0085, Reference No. 25436/2152 any additional necessary fees.
- ☐ Charge the amount of \$ _____ to Deposit Account No. 16-0085, Reference No. _____ and any additional necessary fees. A duplicate of this transmittal is attached.

Respectfully submitted,

Date: December 18, 2002


Name: Kathleen M. Williams
Registration No.: 34,380
Customer No.: 27495
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100